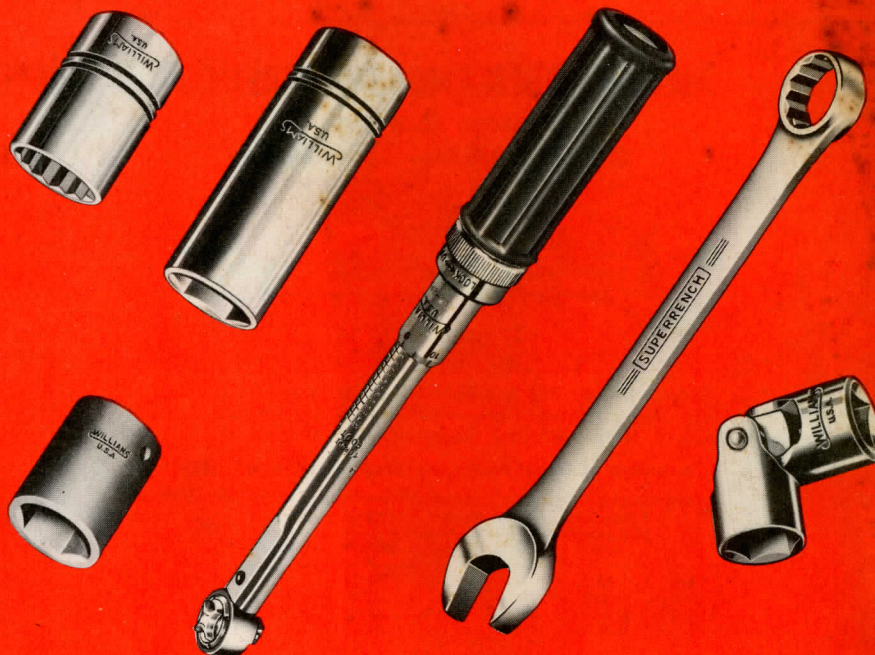




Don't attempt to turn metric fasteners with nearly equivalent U. S. standard wrenches. Damage to the fastener could result, and cause dangerous slippage in subsequent use. Make sure you have the proper metric size.

**FOR TECHNICAL INFORMATION  
ABOUT THESE PRODUCTS**

Ask for Technical Bulletin TB-124 on Williams Metric Supersockets, Superrenches and Torque Wrenches. Contains much helpful information including chart on metric bolts and nuts related to nominal wrench openings.



## METRIC TOOLS

A 212



THIS IS  
THE TEAM  
THAT DELIVERS



**TOOLPOWER**  
WITH THE SPEED AND ECONOMY  
OF LOCAL DISTRIBUTOR SERVICE







## METRIC OPEN-END SUPERRENCH®

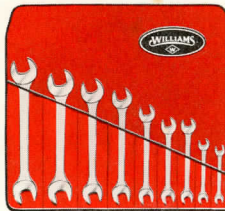
SELECTED ALLOY STEEL  
DOUBLE HEAD—15° ANGLE



Jaws are long, thin and pointed. Drop-forged from Selected Alloy Steel, heat-treated, chrome-plated over nickel, faces polished. Highly efficient where clearance is limited.

**Example of Order Nomenclature: "M-1025 WRENCH"**

No.	Nominal Openings mm	Small Head		Large Head		Overall Length	Wgt. Ea., Lbs.
		Width	Thick.	Width	Thick.		
M-1020	6 & 7	1/2	5/32	39/64	5/32	3-13/16	.03
M-1020T	8 & 9	39/64	3/16	23/32	3/16	4- 1/4	.05
M-1021T	8 & 10	39/64	3/16	25/32	3/16	4- 1/4	.05
M-1023T	9 & 11	47/64	13/64	53/64	13/64	4-11/16	.07
M-1023U	10 & 11	47/64	13/64	53/64	13/64	4-11/16	.07
M-1023	10 & 12	53/64	7/32	15/16	7/32	5- 1/8	.10
M-1025	12 & 14	15/16	1/4	1- 1/8	1/4	6- 1/4	.15
M-1027T	13 & 15	1- 1/16	17/64	1-11/64	17/64	6- 7/8	.20
M-1028	16 & 18	1-11/64	19/64	1-15/32	19/64	8- 1/4	.32
M-1028T	17 & 19	1-19/64	5/16	1-17/32	5/16	9	.38
M-1031	20 & 22	1-17/32	11/32	1-41/64	11/32	9- 3/4	.54
M-1031T	21 & 23	1-41/64	3/8	1- 3/4	3/8	10- 1/2	.71
M-1033T	22 & 27	1- 3/4	13/32	2	13/32	11- 3/8	.90
M-1033	24 & 26	1- 3/4	13/32	2	13/32	11- 3/8	.92
M-1035	25 & 28	2	7/16	2- 7/64	7/16	12- 1/4	1.1



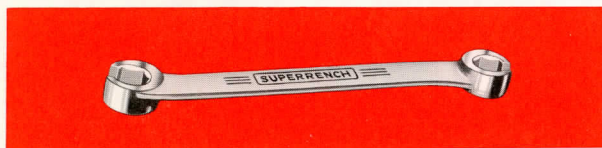
SET No. WS-20R  
9 Wrenches  
In K-16 Roll Kit

SET No. WS-20B  
In Cardboard Box  
Weight, 2.8 lbs.

No.	Nominal Openings	No.	Nominal Openings
M-1020	6 & 7 mm	M-1027T	13 & 15 mm
M-1020T	8 & 9 mm	M-1028T	17 & 19 mm
M-1023T	9 & 11 mm	M-1031T	21 & 23 mm
M-1023U	10 & 11 mm	M-1033T	22 & 27 mm
M-1025	12 & 14 mm	.....	.....

## METRIC FLARE NUT SUPERRENCH®

SELECTED ALLOY STEEL  
DOUBLE HEAD SPLIT BOX



Each box end has a 6-point opening offset 15° from plane of handle with a tube opening slot at 22-1/2° to the axis of the handle.

**Example of Order Nomenclature: "MFN-1517 WRENCH"**

No.	Nom. Op. mm	Small End			Large End			Lgt.	Wgt. Each Lbs.
		Head Diam.	Head Thick.	Tube Clear	Head Diam.	Head Thick.	Tube Clear		
MFN-911	9 & 11	51/64	11/32	1/4	7/8	3/8	9/32	6-1/4	.12
MFN-1012	10 & 12	51/64	11/32	1/4	7/8	3/8	9/32	6-1/4	.12
MFN-1314	13 & 14	31/32	3/8	3/8	1-1/16	7/16	7/16	7-1/2	.25
MFN-1517	15 & 17	1-7/64	7/16	15/32	1-15/64	1/2	9/16	8-1/2	.40

## METRIC BOX-OPEN END SUPERRENCH®

SELECTED ALLOY STEEL  
SHORT SERIES—15° ANGLE—12 PT. BOX



Jaws are long, thin and pointed. Drop-forged from Selected Alloy Steel, heat-treated, chrome-plated over nickel, faces polished. Highly efficient where clearance is limited.

†Hex box opening.

No.	Nominal Openings mm	Open End		Box End		Overall Length	Wgt. Each, Lbs.
		Width	Thick.	Diam.	Thick.		
XOEMS-6	6 & 6	1/2	1/8	25/64	9/64	3- 1/8	.01
XOEMS-7	7 & 7	35/64	1/8	7/16	9/64	3- 3/8	.02
XOEMS-8	8 & 8	5/8	9/64	15/32	5/32	3-11/16	.02
XOEMS-9	9 & 9	43/64	9/64	17/32	5/32	4-	.03
XOEMS-10	10 & 10	51/64	13/64	37/64	1/4	5- 1/16	.08
XOEMS-11	11 & 11	29/32	7/32	21/32	5/16	5- 3/8	.10
XOEMS-12	12 & 12	1- 1/32	1/4	47/64	21/64	5-13/16	.14
XOEMS-13	13 & 13	1- 1/32	1/4	47/64	21/64	5-13/16	.14
XOEMS-14	14 & 14	1- 5/32	9/32	53/64	11/32	6- 1/8	.17
XOEMS-15	15 & 15	1- 9/32	19/64	59/64	3/8	6- 1/2	.23
XOEMS-16	16 & 16	1- 9/32	19/64	59/64	3/8	6- 1/2	.23
XOEMS-17	17 & 17	1-25/64	5/16	1- 1/64	13/32	6- 3/4	.27
XOEMS-18	18 & 18	1-25/64	5/16	1- 1/64	13/32	6- 3/4	.27
XOEMS-19	19 & 19	1-17/32	11/32	1- 3/32	7/16	7	.33

SET No. WS-22R  
6 Wrenches  
In K-3 Roll Kit

SET No. WS-22B  
In Box  
Weight, 1.1 lbs.



SET No. WS-23R  
8 Wrenches  
In K-12 Roll Kit  
SET No. WS-23B  
In Box  
Weight, 1.7 lbs.

No.	Nom. Openings	No.	Nom. Openings
SETS Nos. WS-22R and WS-22B			
XOEMS-6	6 & 6 mm	XOEMS-9	9 & 9 mm
XOEMS-7	7 & 7 mm	XOEMS-10	10 & 10 mm
XOEMS-8	8 & 8 mm	XOEMS-11	11 & 11 mm
SETS Nos. WS-23R and WS-23B			
XOEMS-12	12 & 12 mm	XOEMS-16	16 & 16 mm
XOEMS-13	13 & 13 mm	XOEMS-17	17 & 17 mm
XOEMS-14	14 & 14 mm	XOEMS-18	18 & 18 mm
XOEMS-15	15 & 15 mm	XOEMS-19	19 & 19 mm

## METRIC RATCHETING BOX SUPERRENCH®

DOUBLE HEAD PATTERN



Made from selected steel. All critical parts are heat-treated for lasting service and safety. Chrome-plated over nickel.

†Hex Openings

No.	Nominal Openings mm	Small Head		Large Head		Overall Length	Wgt. Each Lbs.
		Diam.	Thick.	Diam.	Thick.		
†RBM-0708	7 & 8	19/32	3/8	5/8	3/8	4-1/4	.13
†RBM-0910	9 & 10	23/32	3/8	7/8	3/8	5-1/2	.19
†RBM-1112	11 & 12	1	1/2	1- 1/8	1/2	6-3/4	.42
†RBM-1314	13 & 14	1	1/2	1- 1/8	1/2	6-3/4	.42
RBM-1517	15 & 17	1- 9/32	1/2	1-7/16	1/2	8	.67
RBM-1618	16 & 18	1- 9/32	1/2	1-7/16	1/2	8	.67
RBM-1920	19 & 20	1-13/32	1/2	1-9/16	1/2	9-1/4	.75



SET No. WS-26R  
7 Wrenches  
In K-15 Roll Kit

SET No. WS-26B  
In Cardboard Box  
Weight, 4.5 lbs.

No.	Openings	No.	Openings	No.	Openings
RBM-0708	7 & 8 mm	RBM-1314	13 & 14 mm	RBM-1920	19 & 20 mm
RBM-0910	9 & 10 mm	RBM-1517	15 & 17 mm	.....	.....
RBM-1112	11 & 12 mm	RBM-1618	16 & 18 mm	.....	.....

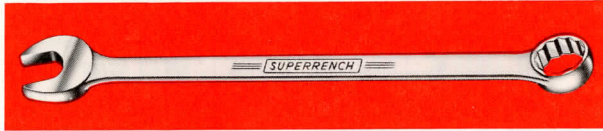




## METRIC BOX-OPEN END SUPERRENCH®

SELECTED ALLOY STEEL

LONG SERIES—15° ANGLE—12 PT. BOX



No.	Nominal Openings mm	Open End		Box End		Overall Length	Wgt. Ea., Lbs.
		Width	Thick.	Diam.	Thick.		
XOEM-8	8	11/16	3/16	17/32	7/32	5- 1/2	.06
XOEM-9	9	11/16	3/16	17/32	7/32	5- 1/2	.06
XOEM-10	10	51/64	13/64	37/64	1/4	6	.08
XOEM-11	11	29/32	7/32	21/32	5/16	6- 5/8	.13
XOEM-12	12	1- 1/32	1/4	47/64	21/64	7- 3/16	.16
XOEM-13	13	1- 1/32	1/4	47/64	21/64	7- 3/16	.16
XOEM-14	14	1- 5/32	9/32	53/64	11/32	7-15/16	.21
XOEM-15	15	1- 9/32	19/64	59/64	3/8	8- 3/4	.29
XOEM-16	16	1- 9/32	19/64	59/64	3/8	8- 3/4	.29
XOEM-17	17	1-13/32	5/16	1- 1/64	13/32	9- 5/8	.35
XOEM-18	18	1-13/32	5/16	1- 1/64	13/32	9- 5/8	.35
XOEM-19	19	1-17/32	11/32	1- 3/32	7/16	10- 5/8	.46
XOEM-20	20 & 20	1- 5/8	23/64	1-11/64	15/32	11- 9/16	.58
XOEM-21	21 & 21	1- 5/8	23/64	1-11/64	15/32	11- 9/16	.58
XOEM-22	22 & 22	1- 3/4	3/8	1- 1/4	1/2	12-11/16	.69
XOEM-23	23 & 23	1-55/64	25/64	1-21/64	9/16	13- 7/8	.85
XOEM-24	24 & 24	1-55/64	25/64	1-21/64	9/16	13- 7/8	.85
XOEM-25	25 & 25	1-31/32	13/32	1-27/64	5/8	15- 1/8	1.
XOEM-27	27 & 27	2- 3/32	27/64	1- 1/2	43/64	16- 1/4	1.3
XOEM-32	32 & 32	2-15/32	15/32	1-25/32	3/4	18-11/16	1.9



SET No. WS-24R  
6 Wrenches

In K-13 Roll Kit

SET No. WS-24B

In Cardboard Box

Weight, 4.9 lbs.

No.	Openings	No.	Openings
XOEM-20	20 & 20 mm	XOEM-23	23 & 23 mm
XOEM-21	21 & 21 mm	XOEM-24	24 & 24 mm
XOEM-22	22 & 22 mm	XOEM-25	25 & 25 mm

## METRIC 12-POINT BOX SUPERRENCH®

SELECTED ALLOY STEEL

LONG DOUBLE OFFSET PATTERN



Drop-forged from Selected Alloy Steel, heat-treated, chrome-plated over nickel, heads polished.

†Hex Opening

No.	Nominal Openings mm	Small Head		Large Head		Overall Length	Wgt. Ea., Lbs.
		Diam.	Thick.	Diam.	Thick.		
†M-8021T	6 & 7	3/8	11/64	13/32	3/16	3- 3/8	.04
M-8021	8 & 10	33/64	15/64	5/8	17/64	7- 1/2	.13
M-8723	9 & 11	37/64	1/4	21/32	9/32	7- 3/4	.13
M-8023	10 & 12	21/32	19/64	47/64	21/64	8- 1/16	.20
M-8025A	12 & 13	47/64	21/64	53/64	11/32	8-11/16	.25
M-8725B	13 & 14	47/64	21/64	53/64	11/32	8-11/16	.25
M-8727A	15 & 17	29/32	3/8	1	13/32	9- 3/4	.35
M-8729	16 & 18	29/32	13/32	1- 5/64	7/16	10- 1/8	.42
M-8029	17 & 19	1	13/32	1- 5/64	7/16	10- 1/2	.44
M-8031B	19 & 20	1- 1/8	31/64	1-11/64	33/64	12- 1/2	.65
M-8731B	21 & 22	1- 1/4	17/32	1-21/64	9/16	13- 3/8	1.
M-8033	23 & 24	1- 1/4	9/16	1-13/32	19/32	13- 7/8	1.
M-8034	23 & 27	1-21/64	39/64	1- 1/2	21/32	15- 1/2	1.2
M-8735A	25 & 28	1-13/32	41/64	1- 9/16	43/64	16	1.3
M-8735	26 & 29	1- 1/2	43/64	1- 9/16	23/32	16- 5/8	1.4
M-8039	30 & 32	1- 9/16	23/32	1-27/32	25/32	18- 3/4	2.8



SET No. WS-21R  
6 Wrenches

In K-13 Roll Kit

SET No. WS-21B

In Cardboard Box

Weight, 1.8 lbs.

No.	Openings	No.	Openings
M-8021	8 & 10 mm	M-8725B	13 & 14 mm
M-8723	9 & 11 mm	M-8727A	15 & 17 mm
M-8023	10 & 12 mm	M-8029	17 & 19 mm

## METRIC POWER-DRIVE SOCKETS

SINGLE HEXAGON OPENINGS

Made from extra tough Selected Alloy Steel and specially heat-treated to withstand the constant shock and pounding involved in electric and pneumatic nut setting and power nut running. Industrial Black Finish.

### 3/8 Inch SQUARE DRIVE



No.	Millimeter Opening	Nose Diameter	Depth Opening	Length	Wgt.
2M-607	7	7/16	1/8	1	.06
2M-608	8	31/64	5/32	1	.06
2M-609	9	17/32	7/32	1	.06
2M-610	10	19/32	13/64	1	.06
2M-611	11	41/64	7/32	1-1/16	.06
2M-612	12	45/64	1/4	1-1/16	.10
2M-613	13	3/4	1/4	1-1/8	.08
2M-614	14	13/16	5/16	1-1/8	.11
2M-617	17	31/32	23/64	1-3/16	.14
2M-619	19	1- 1/16	7/16	1-3/16	.17

No.	Description	Sq. Fem.	Male	Length	Wgt. Ea.,
2-02A	Hex.-Sq. Shank	...	3/8 Sq x 1/4 Hex	2	.06
2-33A	Hex.-Sq. Shank	...	3/8 Sq x 7/16 Hex	2-3/4	.15
2-35A	Hex.-Sq. Shank	...	3/8 Sq x 7/16 Hex	5	.28
2-38A	Hex.-Sq. Shank	...	3/8 Sq x 7/16 Hex	8	.53
2-4A	Adapter	3/8	1/2 Square	1-3/8	.14
2-103A	Extension	3/8	3/8 Square	3	.09
2-106A	Extension	3/8	3/8 Square	6	.35
2-140A	Universal Joint, OD 7/8, range 55°	3/8	3/8 Square	2-5/16	.16

### 1/2 Inch SQUARE DRIVE



No.	Millimeter Opening	Nose Diameter	Depth Opening	Length	Wgt.
4M-610	10	41/64	13/64	1-1/2	.15
4M-611	11	11/16	7/32	1-1/2	.15
4M-612	12	47/64	1/4	1-1/2	.19
4M-613	13	51/64	1/4	1-1/2	.19
4M-614	14	55/64	5/16	1-1/2	.16
4M-615	15	57/64	13/32	1-1/2	.18
4M-617	17	1- 1/64	25/64	1-1/2	.22
4M-619	19	1- 9/64	9/16	1-5/8	.27
4M-622	22	1-15/16	33/64	1-5/8	.26
4M-624	24	1- 3/8	19/32	1-3/4	.34
4M-627	27	1-33/64	13/16	2	.35

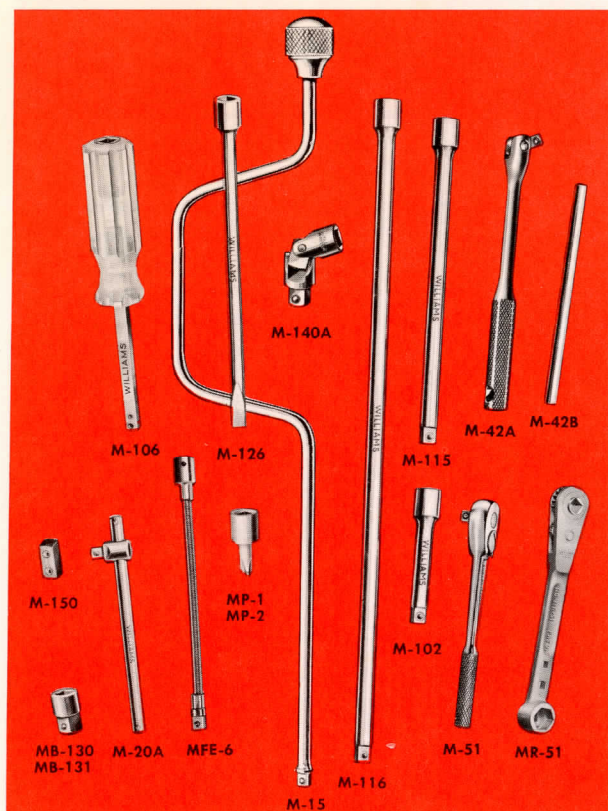
No.	Description	Sq. Fem.	Male	Length	Wgt. Ea.,
4-2A	Adapter	1/2	3/8 Square	1- 1/2	.13
4-33A	Hex.-Sq. Shank	...	1/2 Sq x 7/16 Hex	2- 3/4	.18
4-35A	Hex.-Sq. Shank	...	1/2 Sq x 7/16 Hex	5	.40
4-53A	Hex.-Sq. Shank	...	1/2 Sq x 5/8 Hex	3	.28
4-55A	Hex.-Sq. Shank	...	1/2 Sq x 5/8 Hex	5	.53
4-105A	Extension	1/2	1/2 Square	5- 1/2	.54
4-110A	Extension	1/2	1/2 Square	10	1.
4-140A	Universal Joint, OD 1-1/8, range 55°	1/2	1/2 Square	2-15/16	.36



# 1/4 Inch SQUARE DRIVE METRIC SUPERSOCKETS® and DRIVE TOOLS

SELECTED ALLOY STEEL

SELECTED ALLOY STEEL



Example of Order Nomenclature: "M-51 RATCHET"

No.	Description	Wgt.
M-15	Speeder—15-3/4" long; knurled revolving grip.....	.59
M-20A	Sliding T Handle—4-1/2" long.....	.10
M-42A	Flex Handle only—5-3/4" long; flexible head, knurled grip, crosshole for use with Sliding Bar M-42B....	.25
M-42B	Sliding Bar 1/4" x 4-1/2", for M-42A.....	.08
M-51	Reversible Ratchet—5" long. 24 teeth in Ratchet-gear. Shift-lever reverses action instantly.....	.16
MR-51	Reversible Refrigeration Ratchet—6" long. Has 1/4" female drive in head; 5/16", 1/4", and 3/16" square openings and 1/2" hex opening in handle.....	.29
M-102	Extension—2" long.....	.06
M-106	Spinner Handle has plastic grip with 1/4" square drive-opening in end—6" long.....	.19
M-115	Extension—6" long.....	.17
M-116	Extension—14" long.....	.35
M-126	Regular Screwdriver Socket Attachment—6" long..	.09
MB-130	Adapter—1/4" sq. female and 3/8" sq. male. Adapts Handles with 1/4" sq. dr. to Sockets with 3/8" sq. dr.	.05
MB-131	Adapter—1/4" sq. male and 3/8" sq. female. Adapts Sockets with 1/4" sq. dr. to Handles with 3/8" sq. dr.	.05
M-140A	Universal Joint—Spring tension holds angle desired	.04
M-150	Plug Adapter 3/4" long; both ends 1/4" sq. male....	.02
MFE-6	Flexible Extension—6" long. Extremely useful in hard to reach spots. Strong flexible 1/4" dia. cable	.10
MP-1	Phillips Screwdriver Socket Attachment—No. 1 Phillips Drive to fit screws No. 4 and smaller.....	.02
MP-2	Phillips Screwdriver Socket Attachment—No. 2 Phillips Drive to fit screws Nos. 5 to 9 inclusive...	.03

## REGULAR 6-POINT SOCKETS

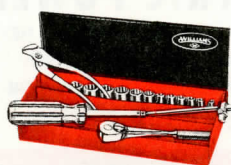
mm Opng.	No.	Nose Dia.	Dpth. Opng.	Lgth.	Wgt.
4	MM-604	17/64	1/8	27/32	.01
5	MM-605	5/16	1/8	27/32	.01
5.5	MM-605.5	11/32	1/8	27/32	.01
6	MM-606	23/64	1/8	27/32	.02
7	MM-607	13/32	1/8	27/32	.02
8	MM-608	29/64	5/32	27/32	.02
9	MM-609	1/2	3/16	27/32	.02
10	MM-610	35/64	13/64	27/32	.03
11	MM-611	39/64	7/32	27/32	.03
12	MM-612	41/64	1/4	27/32	.04
13	MM-613	11/16	1/4	27/32	.05
14	MM-614	49/64	5/16	27/32	.05



SET No. WSM-30  
14 Tools in TB-1A Metal Tool Box  
9-1/4" x 2-1/4" x 1-1/4"  
Total Weight, 1.5 lbs.

Makes nut driver for 12 Metric size fasteners with M-106 handle.

One Ea.	Description	One Ea.	Description	One Ea.	Description
MM-604	4 mm Skt	MM-608	8 mm Skt	MM-613	13 mm Skt
MM-605	5 mm Skt	MM-609	9 mm Skt	MM-614	14 mm Skt
MM-605.5	5.5 mm Skt	MM-610	10 mm Skt	M-20A	Sliding Tee
MM-606	6 mm Skt	MM-611	11 mm Skt	M-106	Spinner Handle
MM-607	7 mm Skt	MM-612	12 mm Skt		



SET No. WSM-31  
16 Tools in TB-3A Metal Tool Box  
9-1/2" x 3-1/2" x 1-1/4"  
Total Weight, 2.1 lbs.

Extremely flexible metric set will handle many applications. M-106 Handle is a combination drive extension and nut driver.

One Ea.	Description	One Ea.	Description	One Ea.	Description
MM-604	4 mm Skt	MM-609	9 mm Skt	M-20A	Sliding Tee
MM-605	5 mm Skt	MM-610	10 mm Skt	M-51	Ratchet
MM-605.5	5.5 mm Skt	MM-611	11 mm Skt	M-106	Spinner Handle
MM-606	6 mm Skt	MM-612	12 mm Skt	PL-1519	Pliers
MM-607	7 mm Skt	MM-613	13 mm Skt		
MM-608	8 mm Skt	MM-614	14 mm Skt		

## M-42RK FLEX HANDLE REPAIR KIT

For fast, efficient repair of new design M-42A Flex Handle.



Qty.	No.	Description
1	M-42-1	Drive Tang
1	M-42-2	Spring
1	M-42-3	Hinge Pin

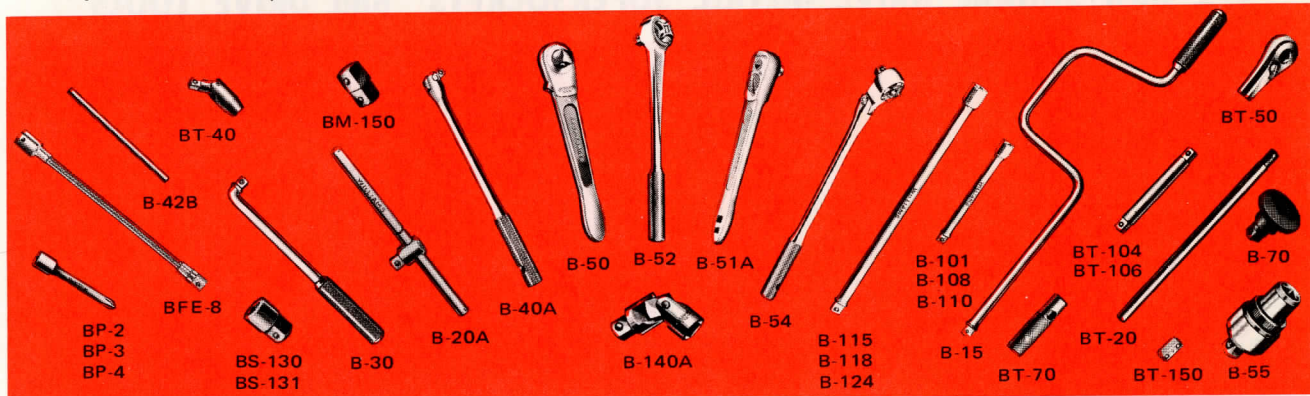
## M-51 RATCHET REPAIR PARTS

No.	Description	No.	Description	No.	Description
M-51-1	Ring	M-51-4	Bearing Pin	M-51-7	Bolt Pin
M-51-2	Gear	M-51-5	Spring	M-51-8	Plunger
M-51-3	Dog	M-51-6	Bolt	M-51-W	Spanner

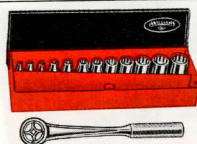




# 3/8 Inch SQUARE DRIVE METRIC SUPERSOCKETS® and DRIVE TOOLS



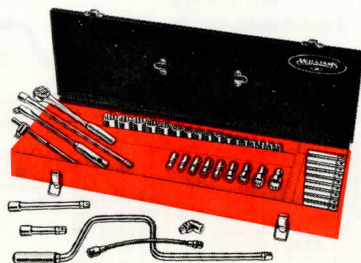
No.	Description	Wgt.
B-15	Speeder—16-1/8" long; Knurled revolving grip....	1.1
B-20A	Sliding T Handle—6-1/2" long.....	.26
B-30	Offset Handle—7-3/4" long; Knurled grip.....	.50
B-40A	Flex Handle—9-5/8"; flexible head, knurled grip, crosshole for use with Sliding Bar B-42B.....	.57
B-42B	Sliding Bar, 11/32" rd. x 6", for B-40A.....	.08
B-50	Drop-Forged Ratchet—6-1/2" long; complete with No. B-150 Plug-Connector.....	.43
B-51A	Reversible Ratchet for Refrigeration Service—6-1/2" long. 24 teeth in ratchet-gear. Has both 3/8" square male and 1/4" square female ratchet drive. Also has 3/16" and 1/4" square drive holes in handle end.....	.44
B-52	Reversible Ratchet—7-5/8" long. Concentric type Mechanism of 82 tooth action permits rotation of nuts in close quarters. Shift lever reverses action.....	.56
B-54	Flex Head Ratchet Same mechanism as B-52. Handle flexes 90° either way from horizontal. 10-1/2" long.....	.81
B-55	Ratchet Adapter—41 teeth. 2-1/8" long; outside diameter 1-3/16". Knurled shifter reverses action.....	.31
B-70	Ratchet Spinner. Place between ratchet and socket for fast spinning of nuts by hand. 1-5/16" dia.....	.16
B-101	Extension Bar—1-1/2" long.....	.10
B-108	Extension Bar—3" long.....	.16
B-110	Extension Bar—5-1/2" long.....	.23
B-115	Extension Bar—10-3/8" long.....	.44
B-118	Extension Bar—18" long.....	.84
B-124	Extension Bar—24" long.....	1.
B-140A	Universal Joint—Fitted with spring tension to maintain operating angle desired—range approx. 140°.....	.13
B-150	Ratchet Plug-Connector for B-50 Ratchet.....	.03
BFE-8	Flexible Extension—8" long. Extremely useful in hard to reach spots. Exceptionally strong flexible 5/16" diam. cable.....	.22
BM-150	Adapter—3/8" square male and 1/4" square female.....	.03
BP-2	Phillips No. 2 Screwdriver, fits Screws Nos. 5 to 9.....	.06
BP-3	Phillips No. 3 Screwdriver, fits Screws Nos. 10 to 16.....	.13
BP-4	Phillips No. 4 Screwdriver, fits Screws No. 18 and larger.....	.13
BS-130	Adapter—3/8" square female and 1/2" square male.....	.13
BS-131	Adapter—3/8" square male and 1/2" square female.....	.15
BT-20	Combo Tee Bar—7-1/2" long, fits BT-70 Handle Grip.....	.23
BT-40	Combo Flex Head—2-1/4" long, 3/8" male x 3/8" female.....	.13
BT-50	Combo Reversible Ratchet Head—2-13/16" long.....	.29
BT-70	Combo Handle Grip—2-5/8" long, 3/8" female with cross hole.....	.11
BT-104	Combo Extension Bar—3-3/4" long, 3/8" male both ends.....	.19
BT-106	Combo Extension Bar—6" long, 3/8" male both ends.....	.30
BT-150	Combo Ratchet Plug Connector—1" long, 3/8" x 3/8" male.....	.03



**SET No. WSB-20**  
13 Tools in TB-2A Metal Box  
10" x 2-13/16" x 1-3/8"  
Total Weight, 3.1 lbs.

## SET No. WSB-21

44 Tools  
In  
TB-7  
Metal Box  
23" x 7-3/4" x 2-1/4"  
Total Weight,  
14.2 lbs.



mm Opng.	No.	Nose Dia.	Dpth. Opng.	Lgth.	Wgt.
REGULAR #6 and 12-POINT SOCKETS					
*6	BM-606	3/8	15/64	1- 1/8	.05
*7	BM-607	7/16	11/64	1- 1/8	.05
*8	BM-608	15/32	1/4	1- 1/8	.05
*9	BM-609	17/32	11/32	1- 1/8	.05
*10	BM-610	37/64	1/4	1- 1/8	.05
*11	BM-611	39/64	5/16	1- 1/8	.06
*12	BM-612	11/16	3/8	1- 3/16	.05
*13	BM-613	23/32	5/16	1- 3/16	.07
*14	BM-614	49/64	3/8	1- 3/16	.09
*15	BM-615	13/16	29/64	1- 3/16	.09
*16	BM-616	27/32	13/32	1- 3/16	.09
*17	BM-617	59/64	15/32	1- 3/16	.11
*18	BM-618	61/64	13/32	1- 3/16	.11
*19	BM-619	1	1/2	1- 3/16	.15
9	BM-1209	17/32	5/16	1- 1/8	.05
10	BM-1210	37/64	1/4	1- 1/8	.05
11	BM-1211	39/64	5/16	1- 1/8	.05
12	BM-1212	11/16	25/64	1- 3/16	.06
13	BM-1213	23/32	21/64	1- 3/16	.06
14	BM-1214	49/64	25/64	1- 3/16	.07
15	BM-1215	13/16	23/64	1- 3/16	.08
16	BM-1216	27/32	25/64	1- 3/16	.09
17	BM-1217	59/64	29/64	1- 3/16	.11
18	BM-1218	61/64	13/32	1- 3/16	.12
19	BM-1219	1	15/32	1- 3/16	.13
20	BM-1220	1- 1/16	17/32	1- 1/4	.17
21	BM-1221	1- 1/16	31/64	1- 1/4	.17
22	BM-1222	1- 9/64	17/32	1- 1/4	.18
EXTRA DEEP 6-POINT SOCKETS					
9	BMD-609	35/64	5/16	2	.09
10	BMD-610	35/64	3/8	2	.09
11	BMD-611	5/8	3/8	2	.10
12	BMD-612	11/16	7/16	2	.10
13	BMD-613	23/32	1/2	2	.10
14	BMD-614	25/32	1/2	2	.13
15	BMD-615	27/32	1/2	2- 1/4	.16
16	BMD-616	27/32	17/32	2- 1/4	.16
17	BMD-617	15/16	9/16	2- 3/8	.22
18	BMD-618	15/16	9/16	2- 3/8	.22
19	BMD-619	1	19/32	2- 1/2	.22
UNIVERSAL 6-POINT SOCKETS					
9	BMU-609	17/32	1/4	1-25/32	.11
10	BMU-610	17/32	1/4	1-25/32	.11
11	BMU-611	39/64	9/32	1-13/16	.11
12	BMU-612	11/16	5/16	1-27/32	.11
13	BMU-613	11/16	5/16	1-27/32	.11
14	BMU-614	49/64	11/32	1-57/64	.12
15	BMU-615	27/32	3/8	1-61/64	.13
17	BMU-617	59/64	13/32	1-63/64	.13
19	BMU-619	63/64	7/16	2- 1/64	.15



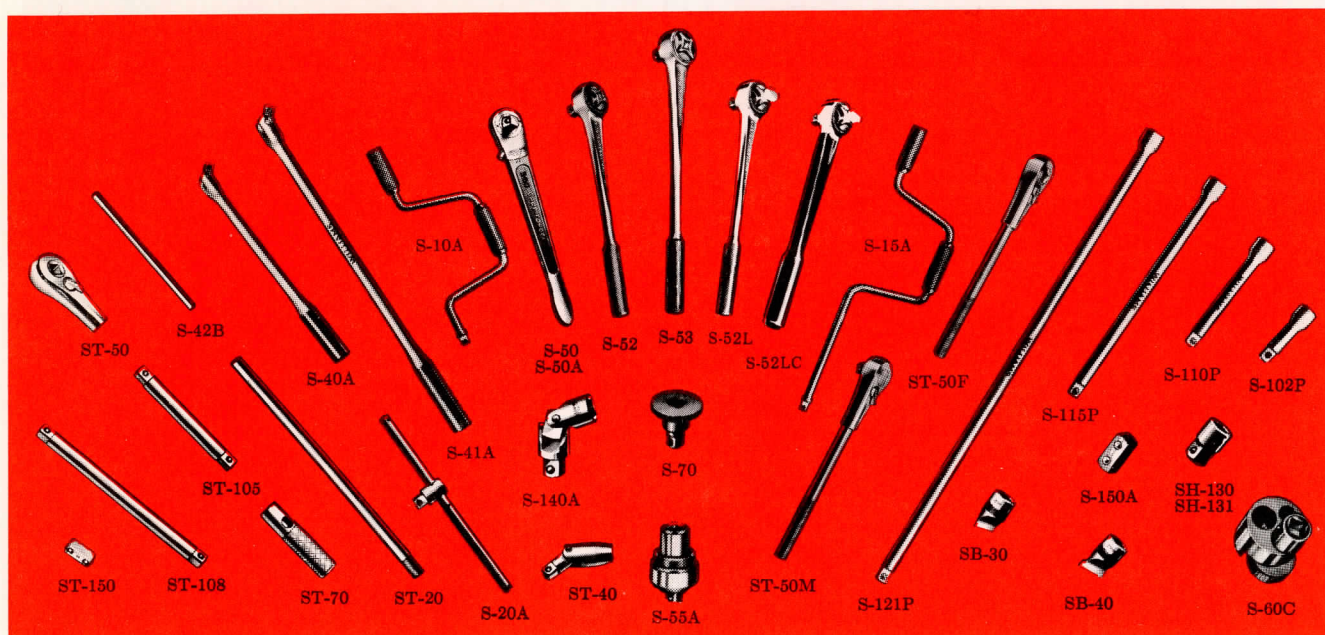
One Ea.	Descrip.	One Ea.	Descrip.	One Ea.	Descrip.	One Ea.	Descrip.
BM-606	6 mm	BM-1210	10 mm	BM-1214	14 mm	B-52	Ratchet
BM-607	7 mm	BM-1211	11 mm	BM-1215	15 mm		
BM-608	8 mm	BM-1212	12 mm	BM-1217	17 mm		
BM-1209	9 mm	BM-1213	13 mm	BM-1219	19 mm		

One Ea.	Description	One Ea.	Description	One Ea.	Description
BM-606	6 mm Skt	BM-1221	21 mm Skt	BMU-613	13 mm Univ
BM-607	7 mm Skt	BM-1222	22 mm Skt	BMU-614	14 mm Univ
BM-608	8 mm Skt	BMD-609	9 mm Deep	BMU-615	15 mm Univ
BM-1209	9 mm Skt	BMD-610	10 mm Deep	BMU-617	17 mm Univ
BM-1210	10 mm Skt	BMD-611	11 mm Deep	BMU-619	19 mm Univ
BM-1211	11 mm Skt	BMD-612	12 mm Deep	B-15	Speeder
BM-1212	12 mm Skt	BMD-613	13 mm Deep	B-20A	Sliding Tee
BM-1213	13 mm Skt	BMD-614	14 mm Deep	B-40A	Flex Handle
BM-1214	14 mm Skt	BMD-615	15 mm Deep	B-52	Ratchet
BM-1215	15 mm Skt	BMD-617	17 mm Deep	B-108	3" Ext'n
BM-1216	16 mm Skt	BMD-619	19 mm Deep	B-110	5-1/2" Ext'n
BM-1217	17 mm Skt	BMU-609	9 mm Univ	B-115	10-1/2" Ext'n
BM-1218	18 mm Skt	BMU-610	10 mm Univ	B-140A	Universal Jt
BM-1219	19 mm Skt	BMU-611	11 mm Univ	BFE-8	Flex Ext'n
BM-1220	20 mm Skt	BMU-612	12 mm Univ		





# 1/2 Inch SQUARE DRIVE METRIC SUPERSOCKETS® and DRIVE TOOLS



No.	Description	Wgt.
S-10A	Speeder—13-7/16" long, with knurled revolving grips	1.8
S-15A	Speeder—18-7/8" long, with knurled revolving grips	2.
S-20A	Sliding T Handle—11" long	.96
S-40A	Flex Handle—12-1/8" long; flexible head, knurled grip, 7/16" round cross hole for Bar S-42B	1.4
S-41A	Flex Handle—17" long; flexible head, knurled grip, 7/16" round cross hole for Bar S-42B	1.8
S-42B	Sliding Bar—7/16" x 9", for S-40A and S-41A	.35
S-50	Ratchet—10" long, with Locked-in Plug Connector	1.3
S-50A	Ratchet—10" long, without Plug Connector	1.3
S-52	Reversible Ratchet—11-1/4" long, 82 tooth action. Shifter reverses action instantly	1.2
S-52L	Linemen's Reversible Ratchet—11-1/4" long, 82 tooth action, Special shifter for operators using gloves	1.3
S-52LC	Linemen's Reversible Ratchet—11-1/2" long. Same as S-52L with Cementex insulated handle up to head	1.5
S-53	Reversible Ratchet—15" long. Has same fine mechanism as S-52 Ratchet	1.6
S-55A	Ratchet Adapter—41 teeth, 2-5/8" long; outside diameter 1-5/8". Knurled shifter reverses action instantly	.66
S-60C	Stud Remover. Stud capacity 1/4" to 3/4"	.52
S-70	Ratchet Spinner—1-3/4" diameter. Use between ratchet and socket to spin nuts fast by hand	.3
S-102P	Extension Bar—2-1/2" long	.27
S-110P	Extension Bar—5-1/2" long	.53
S-115P	Extension Bar—10-1/2" long	1.
S-121P	Extension Bar—20" long	2.1
S-140A	Universal Joint—Spring tension maintains angle	.34
S-150A	Ratchet Plug Connector for S-50 Ratchet	.08
SB-30	Screwdriver "drag link" Socket—7/64 x 15/16" blade	.14
SB-40	Screwdriver "drag link" Socket—3/32 x 1-1/4" blade	.16
SH-130	Adapter—1/2" square female and 3/4" square male	.31
SH-131	Adapter—1/2" square male and 3/4" square female	.44
ST-20	Combo Tee Bar—10-1/4" long, fits ST-70 Handle Grip	.58
ST-40	Combo Flex Head—3-1/16" long, 1/2" M x 1/2" F	.31
ST-50	Combo Reversible Ratchet Head—3-3/4" long	.70
ST-50F	Reversible Ratchet—10-1/2" long, 1/2" F in head	1.6
ST-50M	Reversible Ratchet—10-1/2" long, 1/2" Male in head	1.7
ST-70	Combo Tee Bar—10-1/4" long, 1/2" F with cross hole	.28
ST-105	Combo Extension Bar—5" long, 1/2" male both ends	.41
ST-108	Combo Extension Bar—8" long, 1/2" male both ends	.66
ST-150	Combo Ratchet Plug Connector—1-1/4" long, 1/2" x 1/2" male	.08

## SET No. WSS-25

13 Tools  
In TB-5 Metal Box  
12-1/2" x 3-3/4" x 2-1/4"  
Total Weight, 5.4 lbs.



One Ea.	Desc.	One Ea.	Desc.	One Ea.	Desc.	One Ea.	Desc.
STM-1212	12 mm Skt	STM-1216	16 mm Skt	STM-1221	21 mm Skt	S-52	Ratchet
STM-1213	13 mm Skt	STM-1217	17 mm Skt	STM-1222	22 mm Skt		
STM-1214	14 mm Skt	STM-1219	19 mm Skt	STM-1224	24 mm Skt		
STM-1215	15 mm Skt	STM-1220	20 mm Skt	STM-1227	27 mm Skt		

mm Opng.	No.	Nose Dia.	Dpth. Opng.	Lgth.	Wgt.
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## REGULAR 12-POINT SOCKETS



STM-1210 to STM-1215

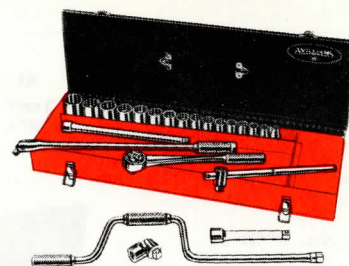


STM-1216 to STM-1236

mm Opng.	No.	Nose Dia.	Dpth. Opng.	Lgth.	Wgt.
10	STM-1210	37/64	23/64	1- 1/2	.11
11	STM-1211	5/8	23/64	1- 1/2	.11
12	STM-1212	43/64	25/64	1- 1/2	.11
13	STM-1213	47/64	25/64	1- 1/2	.11
14	STM-1214	25/32	27/64	1- 1/2	.11
15	STM-1215	53/64	7/16	1-17/32	.13
16	STM-1216	7/8	15/32	1-17/32	.13
17	STM-1217	15/16	33/64	1-17/32	.14
18	STM-1218	31/32	9/16	1- 9/16	.17
19	STM-1219	1- 1/64	9/16	1- 9/16	.17
20	STM-1220	1- 3/64	19/32	1- 9/16	.19
21	STM-1221	1- 1/8	5/8	1-19/32	.23
22	STM-1222	1-11/64	5/8	1-41/64	.27
23	STM-1223	1-13/64	21/32	1-41/64	.28
24	STM-1224	1-15/64	21/32	1-41/64	.28
25	STM-1225	1-19/64	11/16	1-11/16	.33
26	STM-1226	1-25/64	13/16	1-27/32	.47
27	STM-1227	1- 7/16	13/16	1-27/32	.47
28	STM-1228	1-15/32	13/16	1-27/32	.48
29	STM-1229	1- 1/2	13/16	1-27/32	.52
30	STM-1230	1-19/32	27/32	1-29/32	.59
31	STM-1231	1- 5/8	27/32	1-29/32	.66
32	STM-1232	1-21/32	7/8	2	.69
33	STM-1233	1-47/64	7/8	2	.78
34	STM-1234	1-49/64	15/16	2- 1/8	.81
35	STM-1235	1-53/64	15/16	2- 1/8	.86
36	STM-1236	2	15/16	2- 1/8	.92

## SET No. WSS-26

27 Tools  
In TB-7 Metal Box  
23" x 7-3/4" x 2-1/4"  
Total Weight, 15.6 lbs.



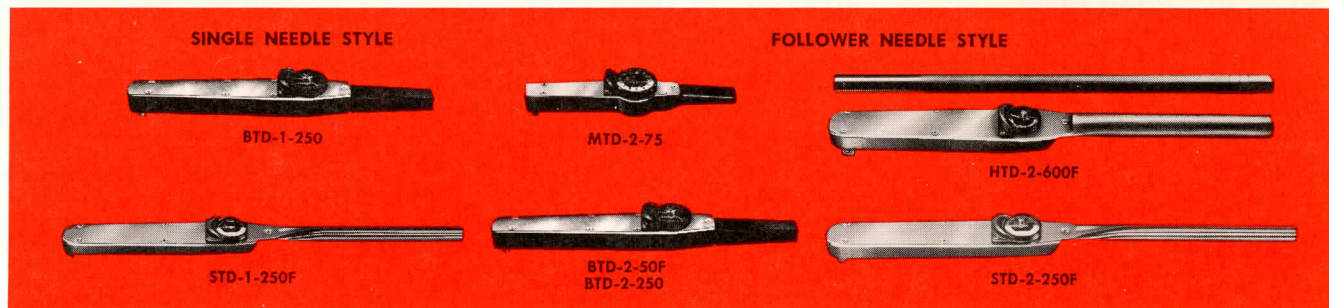
One Ea.	Description	One Ea.	Description	One Ea.	Description
STM-1210	10 mm Skt	STM-1218	18 mm Skt	S-15A	Speeder
STM-1211	11 mm Skt	STM-1219	19 mm Skt	S-20A	Sliding Tee
STM-1212	12 mm Skt	STM-1220	20 mm Skt	S-41A	Flex Handle
STM-1213	13 mm Skt	STM-1221	21 mm Skt	S-52	Ratchet
STM-1214	14 mm Skt	STM-1222	22 mm Skt	S-110P	5-1/2" Ext'n
STM-1215	15 mm Skt	STM-1224	24 mm Skt	S-115P	10-1/2" Ext'n
STM-1216	16 mm Skt	STM-1227	27 mm Skt	S-140A	Universal Jt.
STM-1217	17 mm Skt	STM-1230	30 mm Skt		





## U.S./METRIC DIAL TORQUE WRENCHES

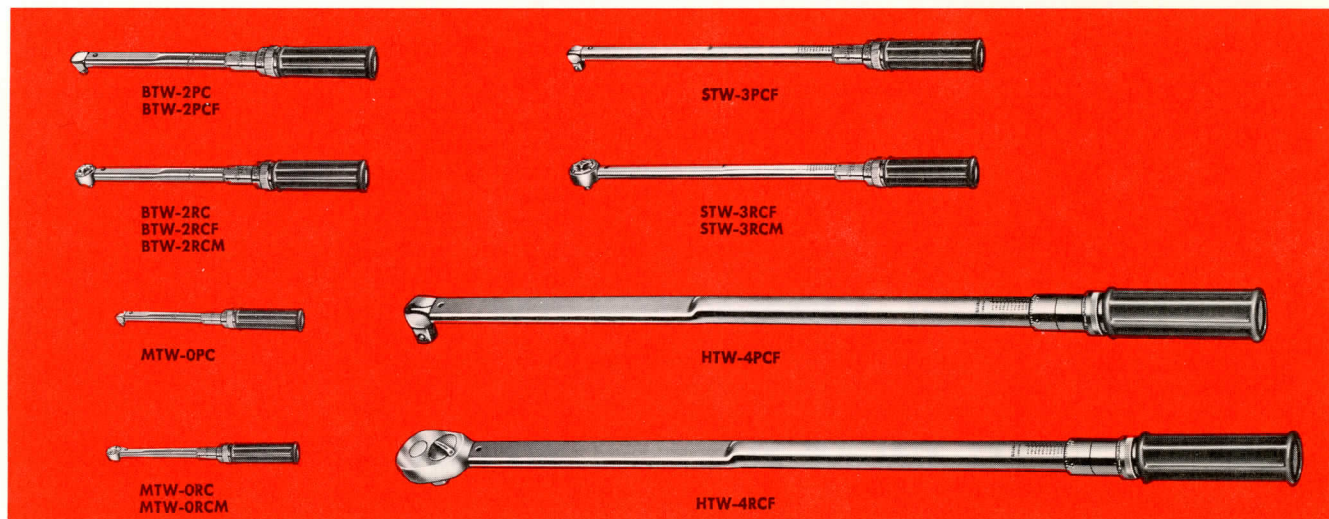
WITH COMBINATION DIALS SHOWING BOTH U.S. STANDARD AND METRIC VALUES



Now you can measure U.S. or Metric torque values with Williams exclusive combination dial. Equally accurate in both right and left hand torque, calibration is certified and traceable to the National Bureau of Standards.

No.	Drive Size	U.S. STANDARD		METRIC		Overall Length, Inches		Wgt. Each Lbs.
		Range	Increments	Range	Increments	Wrench Only	With Extension	
SINGLE NEEDLE STYLE								
BTD-1-250	3/8"	0-250 in lb	5 in lb	0-280 cm kg	5 cm kg	14-7/8	.....	2.0
STD-1-250F	1/2"	0-250 ft lb	5 ft lb	0-35 m kg	1 m kg	22-1/2	.....	3.75
FOLLOWER NEEDLE STYLE								
MTD-2-75	1/4"	0-75 in lb	1 in lb	0-90 cm kg	2 cm kg	10	.....	1.75
BTD-2-250	3/8"	0-250 in lb	5 in lb	0-280 cm kg	5 cm kg	14-7/8	.....	2.0
BTD-2-50F	3/8"	0-50 ft lb	1 ft lb	0-7 m kg	2 m kg	14-7/8	.....	2.0
STD-2-250F	1/2"	0-250 ft lb	5 ft lb	0-35 m kg	1 m kg	22-1/2	.....	3.75
HTD-2-600F	3/4"	0-600 ft lb	10 ft lb	0-80 m kg	2 m kg	25-1/2	46-1/2	10.5

## U.S./METRIC TORQUE LIMITING WRENCHES



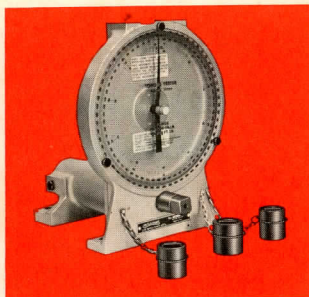
Easy to operate. Merely turn the micrometer style handle to the desired setting and lock in place. The torque limiting device will momentarily release automatically when the predetermined torque has been reached by feel impulse and with audible signal. Convenient dual marking on models indicated facilitate mixed U.S. and Metric applications.

No.	Drive Size	Type Head	Setting	U.S. STANDARD		METRIC		Lgth. Inches	Wgt. Lbs.
				Range	Increm.	Range	Increm.		
DUAL U.S./METRIC MARKINGS									
MTW-0PC	1/4"	Plain	Adjust.	30- 200 in lb	1 in lb	40.3- 236.2 cm kg	1.2 cm kg	9	.6
MTW-0RC	1/4"	Ratch.	Adjust.	30- 200 in lb	1 in lb	40.3- 236.2 cm kg	1.2 cm kg	9-1/2	.7
BTW-2PC	3/8"	Plain	Adjust.	150-1000 in lb	5 in lb	201.6-1180.8 cm kg	5.8 cm kg	14	2.1
BTW-2PCF	3/8"	Plain	Adjust.	15- 100 ft lb	1/2 ft lb	2.4- 14.2 m kg	.07 m kg	14	2.1
BTW-2RC	3/8"	Ratch.	Adjust.	150-1000 in lb	5 in lb	201.6-1180.8 cm kg	5.8 cm kg	15	2.3
BTW-2RCF	3/8"	Ratch.	Adjust.	15- 100 ft lb	1/2 ft lb	2.4- 14.2 m kg	.07 m kg	15	2.3
STW-3PCF	1/2"	Plain	Adjust.	30- 250 ft lb	1 ft lb	4.8- 35.3 m kg	.14 m kg	20	2.3
STW-3RCF	1/2"	Ratch.	Adjust.	30- 250 ft lb	1 ft lb	4.8- 35.3 m kg	.14 m kg	21	2.8
HTW-4PCF	3/4"	Plain	Adjust.	100- 600 ft lb	2-1/2 ft lb	15.6- 84.7 m kg	.4 m kg	40	9.5
HTW-4RCF	3/4"	Ratch.	Adjust.	100- 600 ft lb	2-1/2 ft lb	15.6- 84.7 m kg	.4 m kg	40	10.
METRIC MARKINGS ONLY									
MTW-0RCM	1/4"	Ratch.	Adjust.	.....	.....	30- 200 cm kg	1 cm kg	9-1/2	.7
BTW-2RCM	3/8"	Ratch.	Adjust.	.....	.....	150-1000 cm kg	5 cm kg	15	2.3
STW-3RCM	1/2"	Ratch.	Adjust.	.....	.....	5- 35 m kg	1.1 m kg	21	2.8





## U.S./METRIC TORQUE WRENCH TESTERS



Williams Torque Wrench Testers, designed on the Torsion Bar principle, will quickly test the accuracy of any manual Torque Wrench. All models are similar to illustration at the left. These instruments need not be mounted level nor in a specific plane for accurate performance. They can be operated in either a clockwise or counterclockwise direction. Torque applied to the input of the tester actuates a control arm beneath an accurately calibrated scale. After torque has been applied, the control arm which also acts as a stay-set indicator, remains on the maximum torque reading obtained, until it is manually reset to zero. The reading on the scale of the tester is compared with that of the torque wrench.

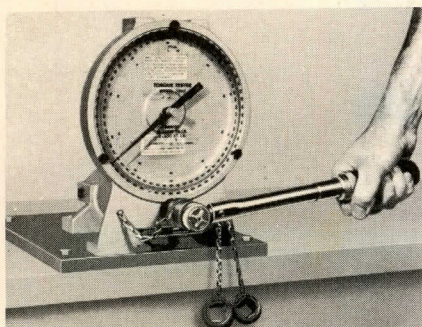
Each Tester comes with combination U.S. Standard and Metric Kilogram Dial Face as listed in table below. Certified accuracy of all models is  $\pm 1\%$ , or one scale graduation, whichever is greater. Tests torque wrenches meeting MIL-H-26497, MLT-26639C or GGG-W-686 specifications, in sizes compatible with the range of each tester. See Technical Bulletin TB-129 for complete operational details. Loader and Calibrator assemblies are shown below.

No.	Range		Increments		Drive Size	Adapters Included	Wgt.
	Metric	U.S.	Metric	U.S.			
TT-F7085	0-290 cm kg	0-250 in lb	1 cm kg	1 in lb	3/8" Female	3/8" Male x 1/4" Female	10.5
TT-F7075	0-2000 cm kg	0-1800 in lb	5 cm kg	2 in lb	3/8" Female	3/8" Male x 1/4" Female 3/8" Male x 1/2" Female	10.5
TT-F7065	0-70 m kg	0-500 ft lb	1 m kg	5 ft lb	3/4" Male	3/4" Female x 3/4" Female 3/4" Female x 1/2" Female	12.0
TT-F7045	0-140 m kg	0-1000 ft lb	1 m kg	5 ft lb	1" Male	3/4" Female x 3/8" Female 1" Female x 1" Female 1" Female x 3/4" Female	15.0

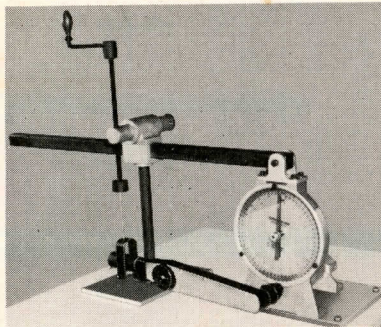
  

No.	Description	Wgt.
<b>MECHANICAL LOADER</b>		
TT-7047	As illustrated below, center. Overall Length, 48"	10.0
<b>CALIBRATOR ASSEMBLIES (Weights Not Included)</b>		
TT-7085631	Use with TT-F7085 Torque Tester. Requires three 5 pound weights.	8.0
TT-7075631	Use with TT-F7075 Torque Tester. Requires three 5 pound and two 20 pound weights.	11.0
TT-7065631	Use with TT-F7065 Torque Tester. Requires three 5 pound and four 20 pound weights.	19.0
	Use with TT-F7045 Torque Tester. Requires two 5 pound and nine 20 pound weights.	
<b>WEIGHTS</b>		
TT-73630-5	5 pound weight for use with Calibrator Assemblies listed in above table.	5.0
TT-73630-20	20 pound weight for use with Calibrator Assemblies listed in above table.	20.0

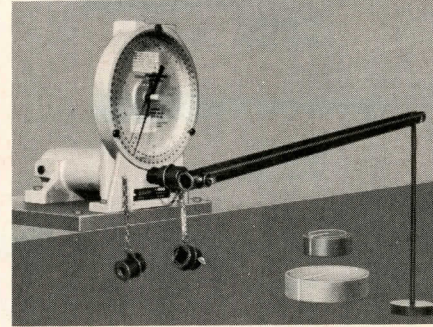
TORQUE TESTER—Checking Accuracy of Wrench



TORQUE TESTER with MECHANICAL LOADER

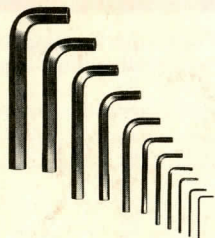


TORQUE TESTER with CALIBRATOR ASSEMBLY



## METRIC HEX KEY WRENCH SET

SELECTED STEEL



SET No. WS-27R  
11 Hex Key Wrenches  
In Plastic Kit

Total Weight, 2.3 lbs.

Excellent range of popular sizes. Made from selected steel.

SOLD IN SET ONLY

Size Millimeter	Short Arm	Long Arm	Size Millimeter	Short Arm	Long Arm
2	23/32	1-15/16	8	1-9/16	4-1/16
2.5	25/32	2-1/32	10	1-3/4	4-7/32
3	7/8	2-3/8	12	1-3/4	5-3/16
4	1-1/16	2-13/16	14	1-7/8	5-3/4
5	1-3/32	3-1/16	17	2	6-5/16
6	1-9/32	3-9/32			

PRINTED IN U.S.A.

## METRIC FEELER GAUGES

TEMPERED SWEDISH STEEL



Blades are 12" long by 1/2" wide, and precision made.

No.	Thickness		Wgt. Per 1/2 Doz.	No.	Thickness		Wgt. Per 1/2 Doz.
	mm	Inches			mm	Inches	
GL-0015	.037	.0015	.021	GL-015	.381	.015	.125
GL-002	.051	.002	.025	GL-016	.406	.016	.125
GL-003	.076	.003	.033	GL-017	.432	.017	.125
GL-004	.102	.004	.044	GL-018	.457	.018	.187
GL-005	.127	.005	.056	GL-020	.508	.020	.187
GL-006	.152	.006	.062	GL-022	.559	.022	.187
GL-007	.178	.007	.062	GL-024	.610	.024	.187
GL-008	.203	.008	.062	GL-025	.635	.025	.187
GL-009	.229	.009	.062	GL-028	.711	.028	.187
GL-010	.254	.010	.062	GL-030	.762	.030	.250
GL-011	.279	.011	.062	GL-032	.813	.032	.250
GL-012	.305	.012	.062	GL-035	.889	.035	.312
GL-013	.330	.013	.125	GL-040	1.016	.040	.375
GL-014	.356	.014	.125				

TRW J.H. WILLIAMS DIVISION